

600
413

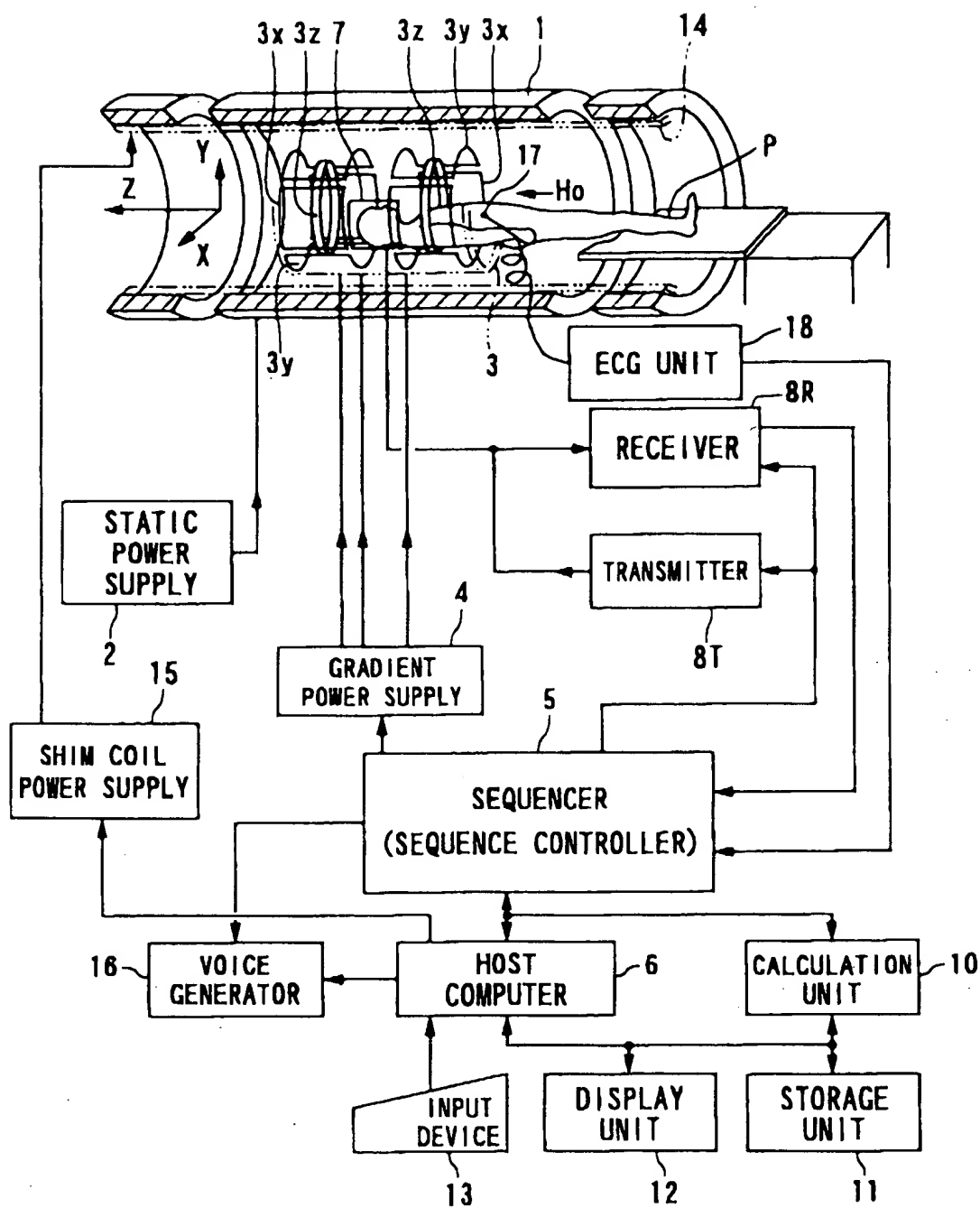


FIG. 1

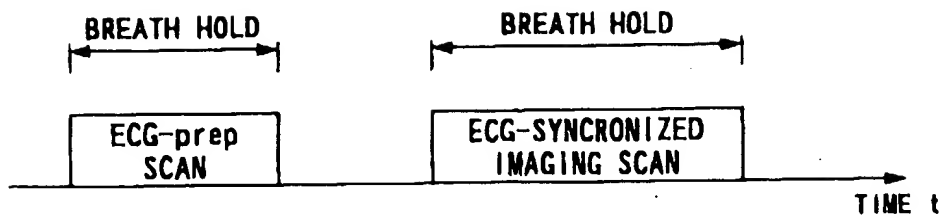


FIG. 2

FIG. 2

FIG. 3

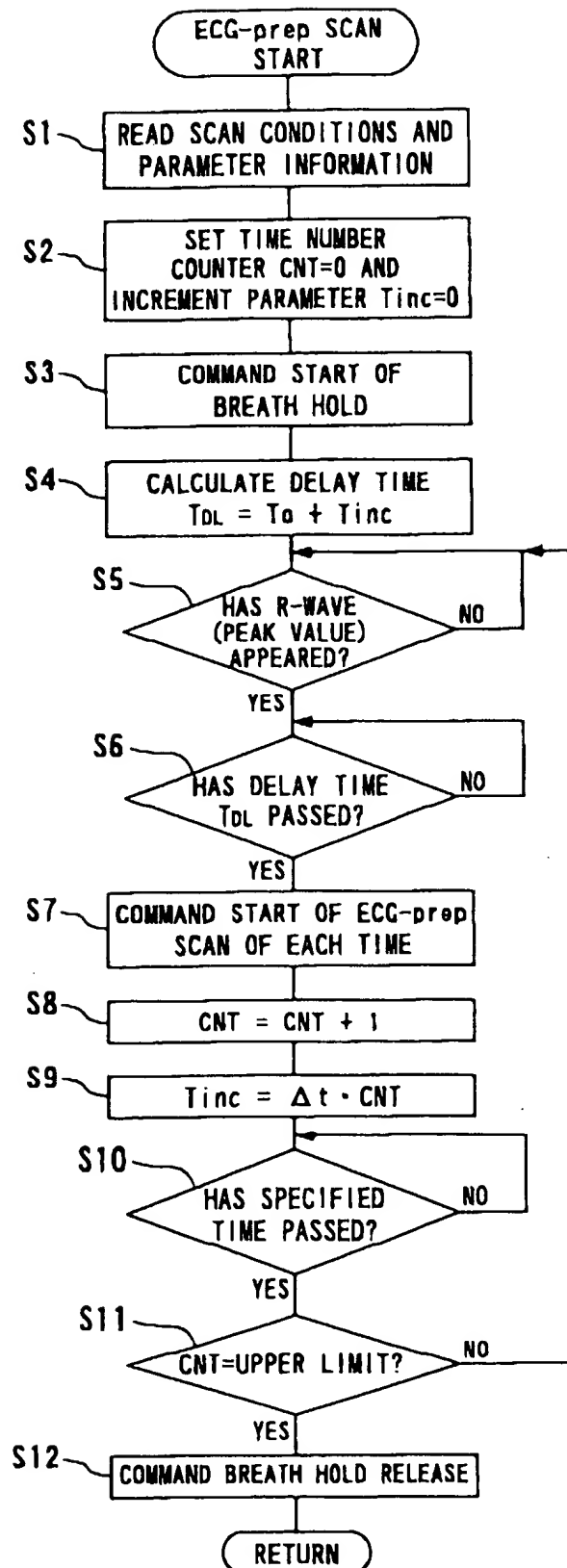


FIG. 3

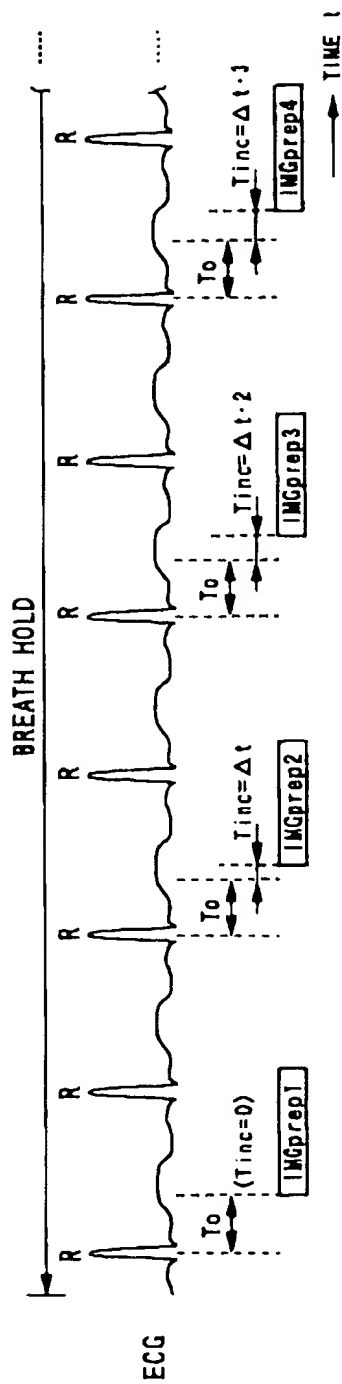


FIG. 4

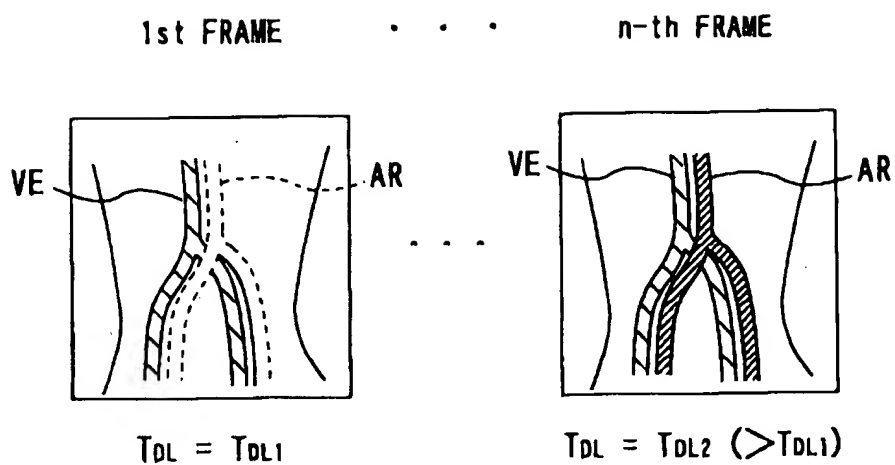


FIG. 5

```

graph TD
    Start([START OF IMAGING SCAN]) --> Host[HOST COMPUTER]
    Host --> S20[S20 READ APPROPRIATE DELAY TIMES  
TDL1 AND TDL2 FOR  
TWO CARDIAC PHASES]
    S20 --> S21[S21 INPUT SCAN CONDITIONS, IMAGE  
PROCESSING METHOD, ETC., PROCESS  
THOSE DATA INTO CONTROL  
DATA, AND OUTPUT CONTROL DATA]
    S21 --> S22{S22 HAS PREPARATION  
BEEN COMPLETED?}
    S22 -- NO --> S22
    S22 -- YES --> S23[S23 COMMAND START OF  
BREATH HOLD]
    S23 --> S24[S24 COMMAND START OF SCAN]
    S24 --> S25{S25 HAS SCAN  
COMPLETION BEEN  
NOTIFIED?}
    S25 -- NO --> S25
    S25 -- YES --> S26[S26 COMMAND REREATH OF BREATH HOLD]
    S26 --> S27[S27 PROCESS AND DISPLAY IMAGE]
    S27 --> End([END])

```

END

```

graph TD
    Start([START OF SCAN]) --> Sequencer[<SEQUENCER>]
    Sequencer --> S24-1{HAS SCAN START  
BEEN COMMANDED?}
    S24-1 -- NO --> S24-1
    S24-1 -- YES --> S24-2[START TO READ ECG SIGNAL]
    S24-2 --> S24-3{HAS SPECIFIED N-th  
R-WAVE APPEARED?}
    S24-3 -- NO --> S24-3
    S24-3 -- YES --> S24-4{HAS DELAY  
TIME Tol1 PASSED?}
    S24-4 -- NO --> S24-4
    S24-4 -- YES --> S24-5[PERFORM IMAGING SCAN(1)]
    S24-5 --> S24-6{HAS DELAY  
TIME Tol2 PASSED?}
    S24-6 -- NO --> S24-6
    S24-6 -- YES --> S24-7[PERFORM IMAGING SCAN(2)]
    S24-7 --> S24-8{HAS FINAL SCAN  
BEEN COMPLETED?}
    S24-8 -- YES --> S24-10[OUTPUT NOTIFICATION OF  
COMPLETION OF IMAGING SCAN]
    S24-8 -- NO --> S24-9{HAS INTERVAL OF  
2R-R PASSED?}
    S24-9 -- YES --> S24-8
    S24-9 -- NO --> S24-9
    S24-10 --> Return([RETURN])

```

FIG. 7

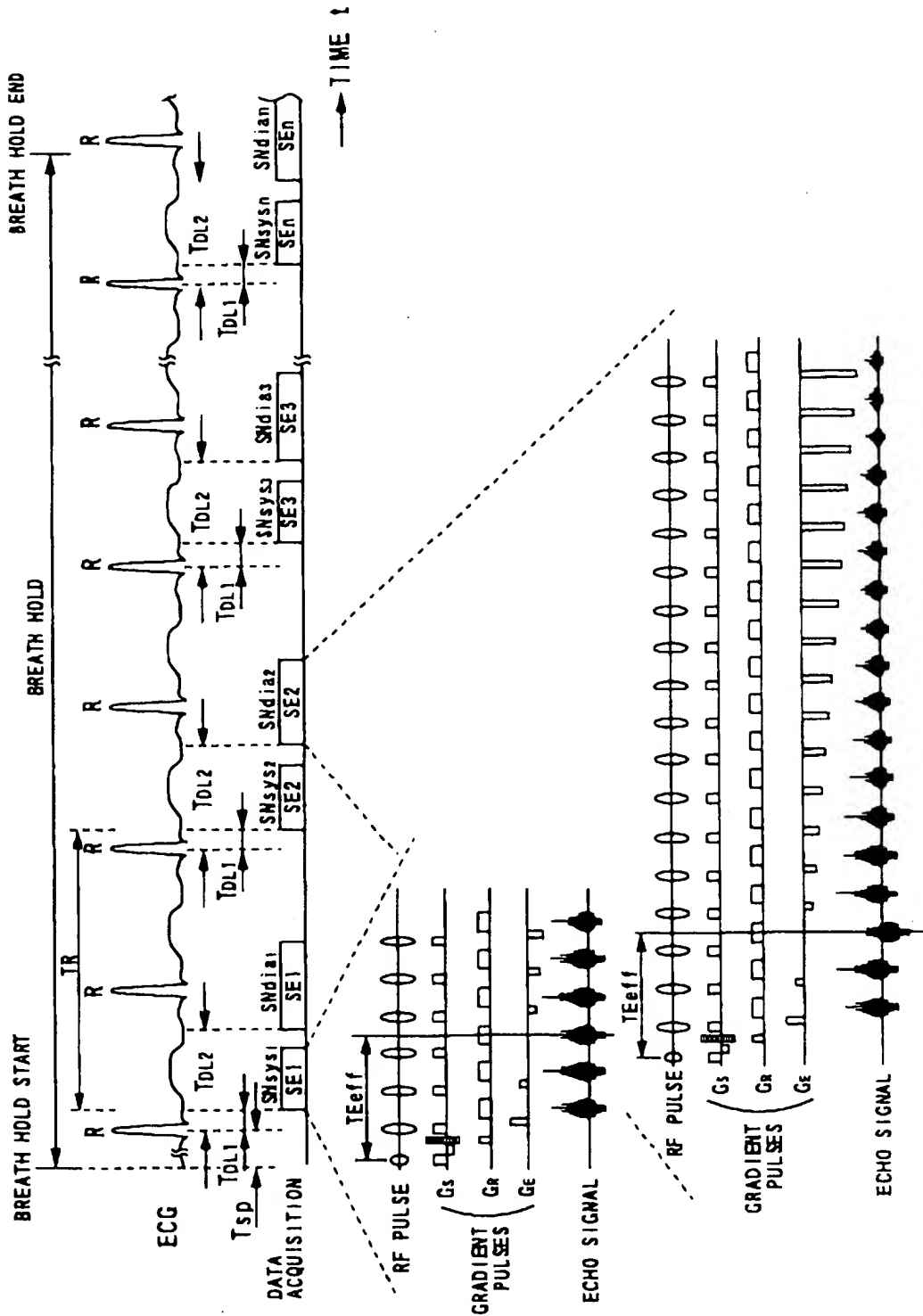
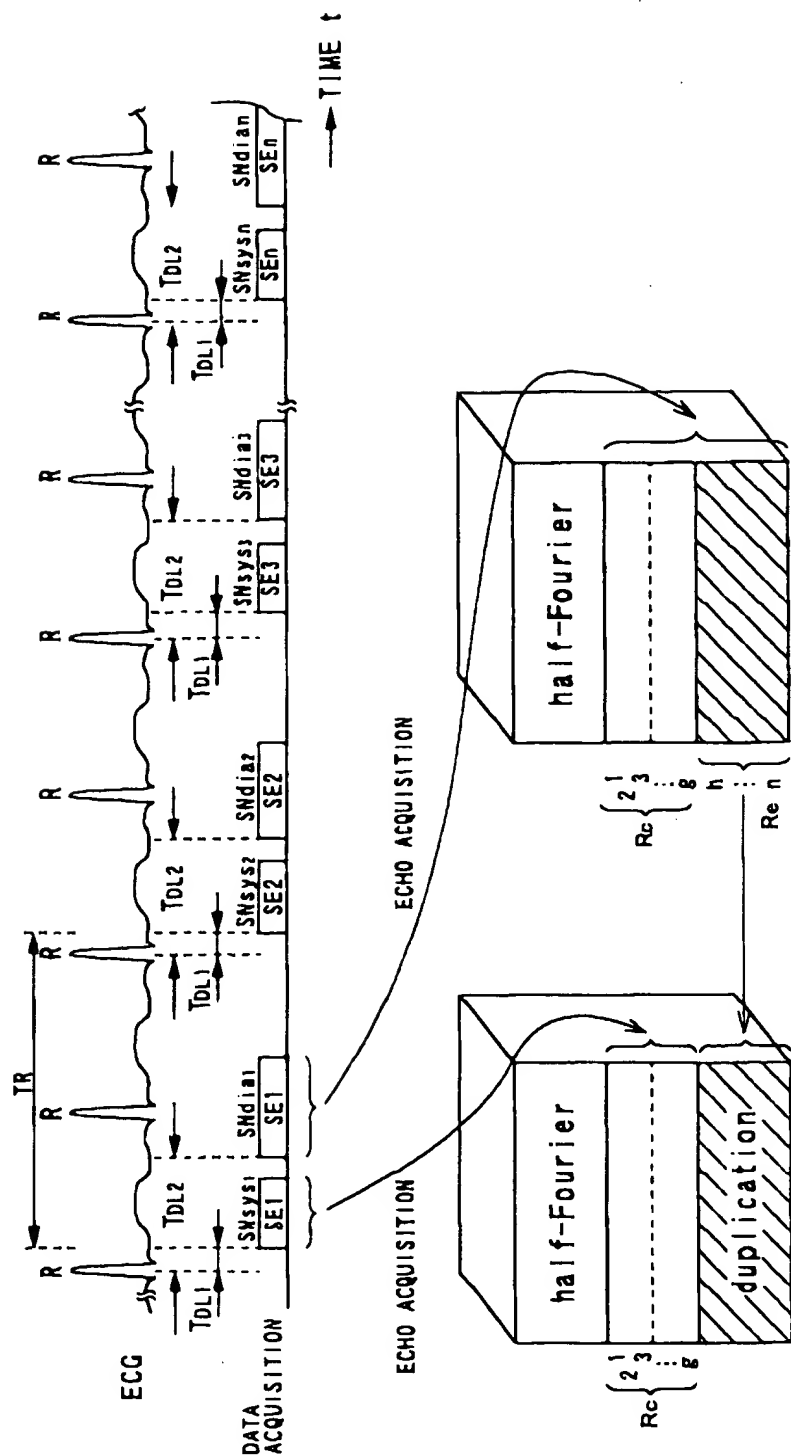


FIG. 8



3D k-space: K_{sys} for systole

3D k-space: K_{dia} for diastole

FIG. 9

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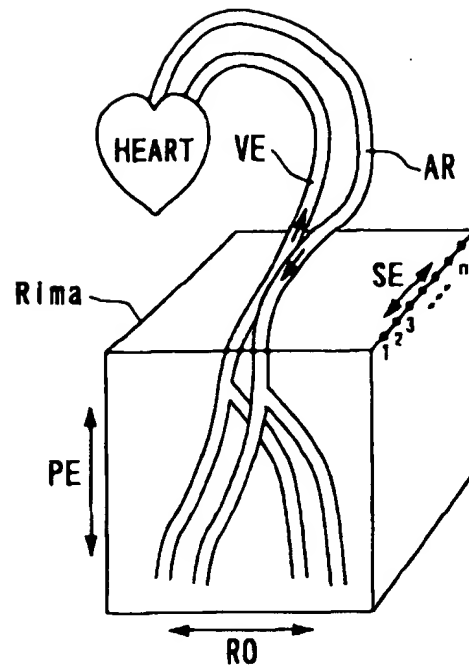


FIG. 10

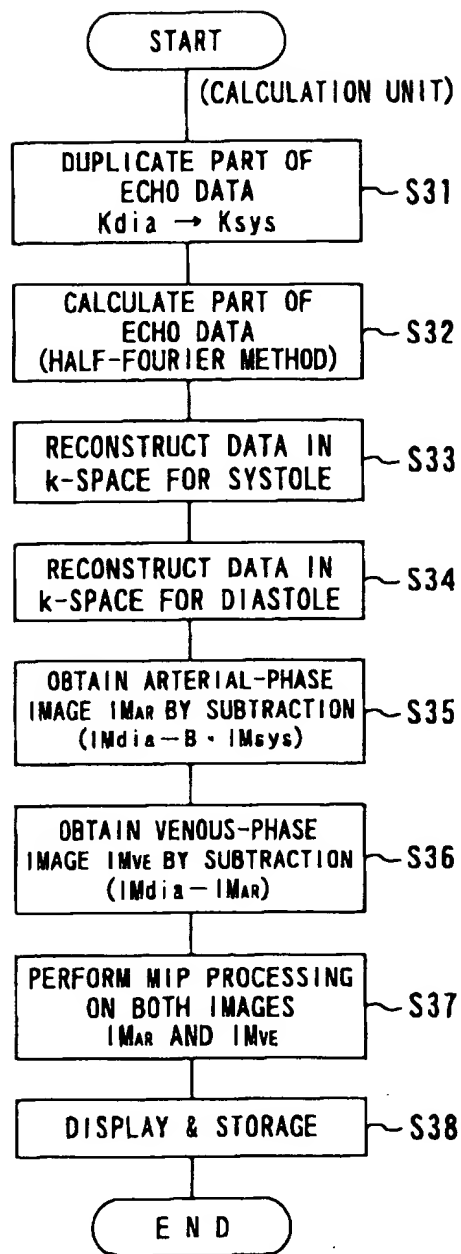


FIG. 11

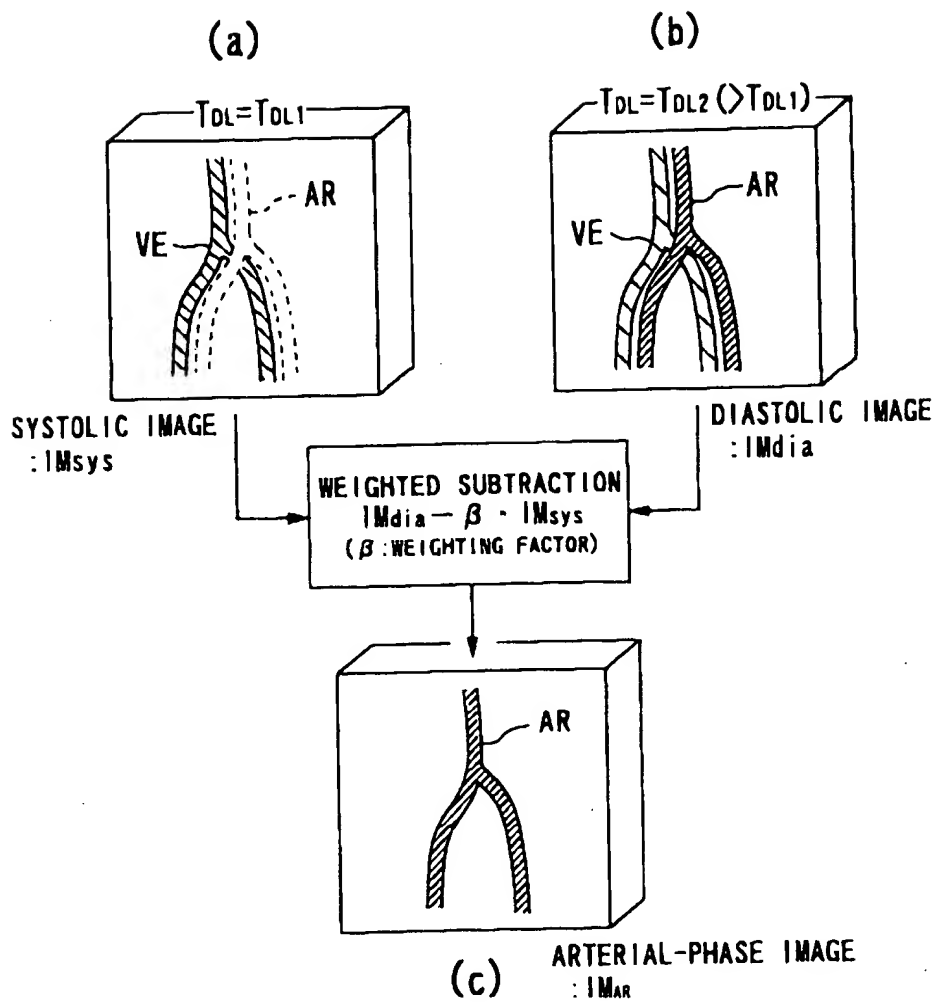


FIG. 12

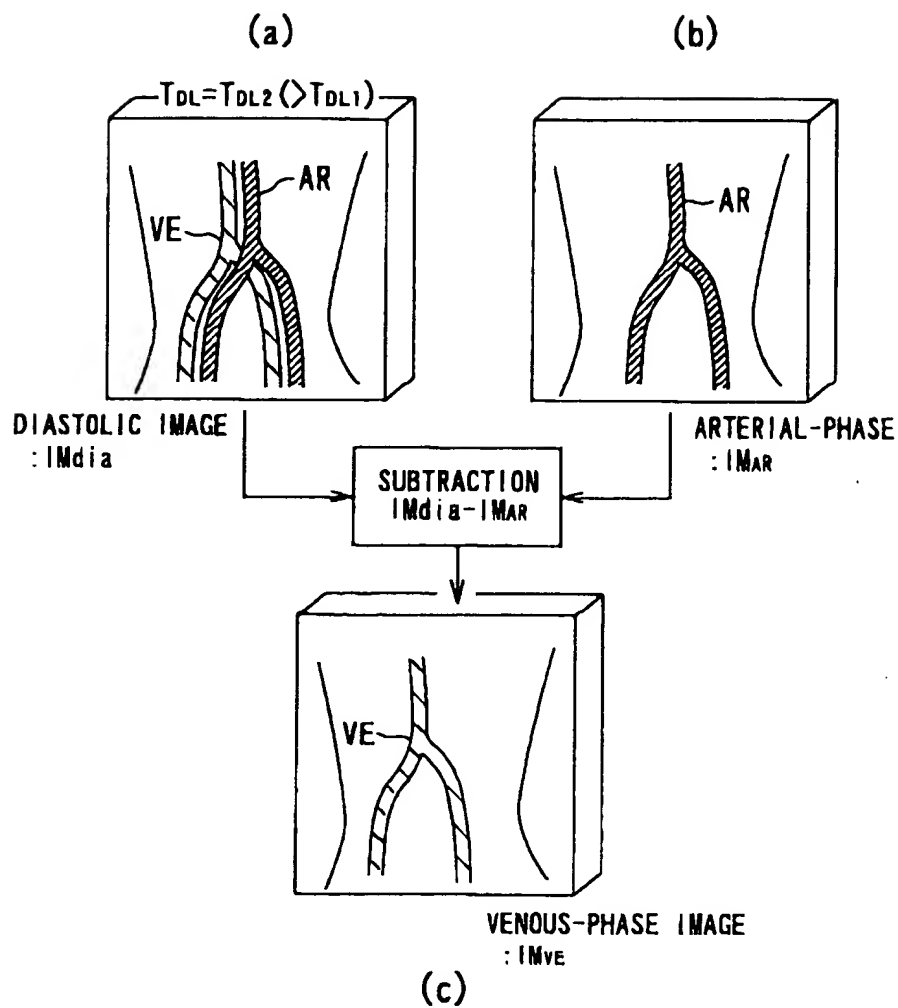


FIG. 13

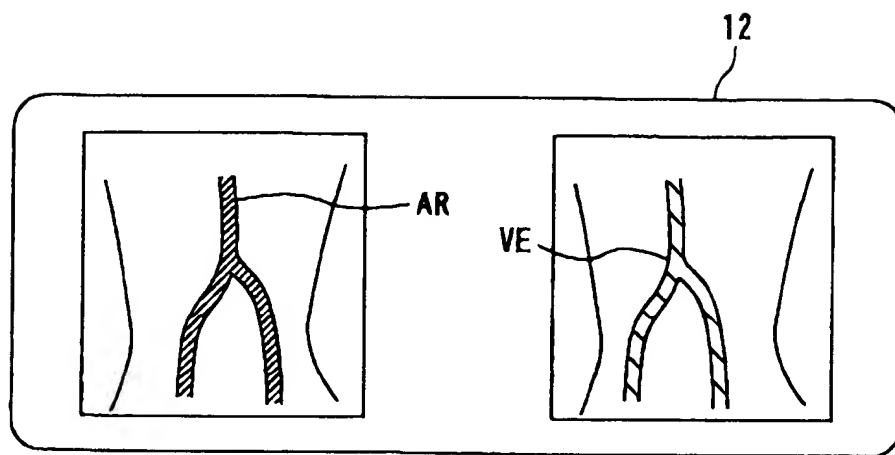


FIG. 14

FIG. 15

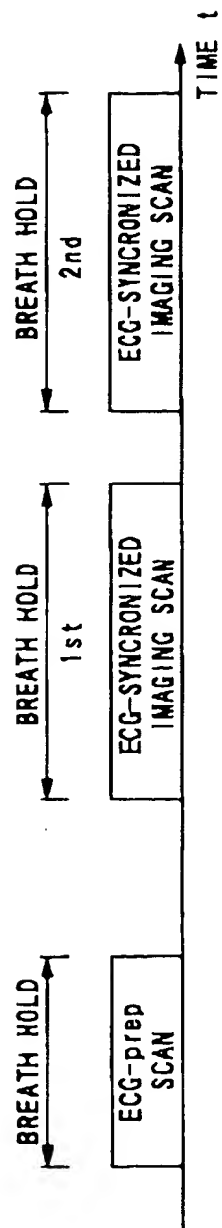


FIG. 15

FIG. 16

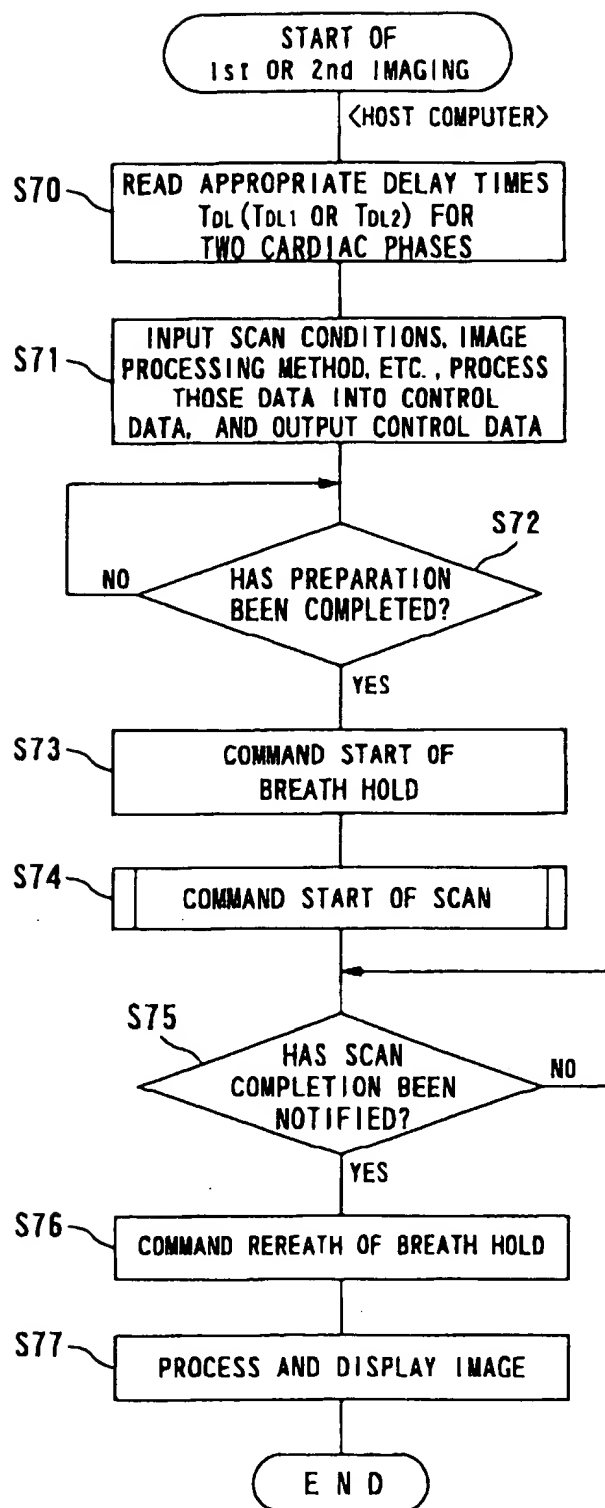


FIG. 16

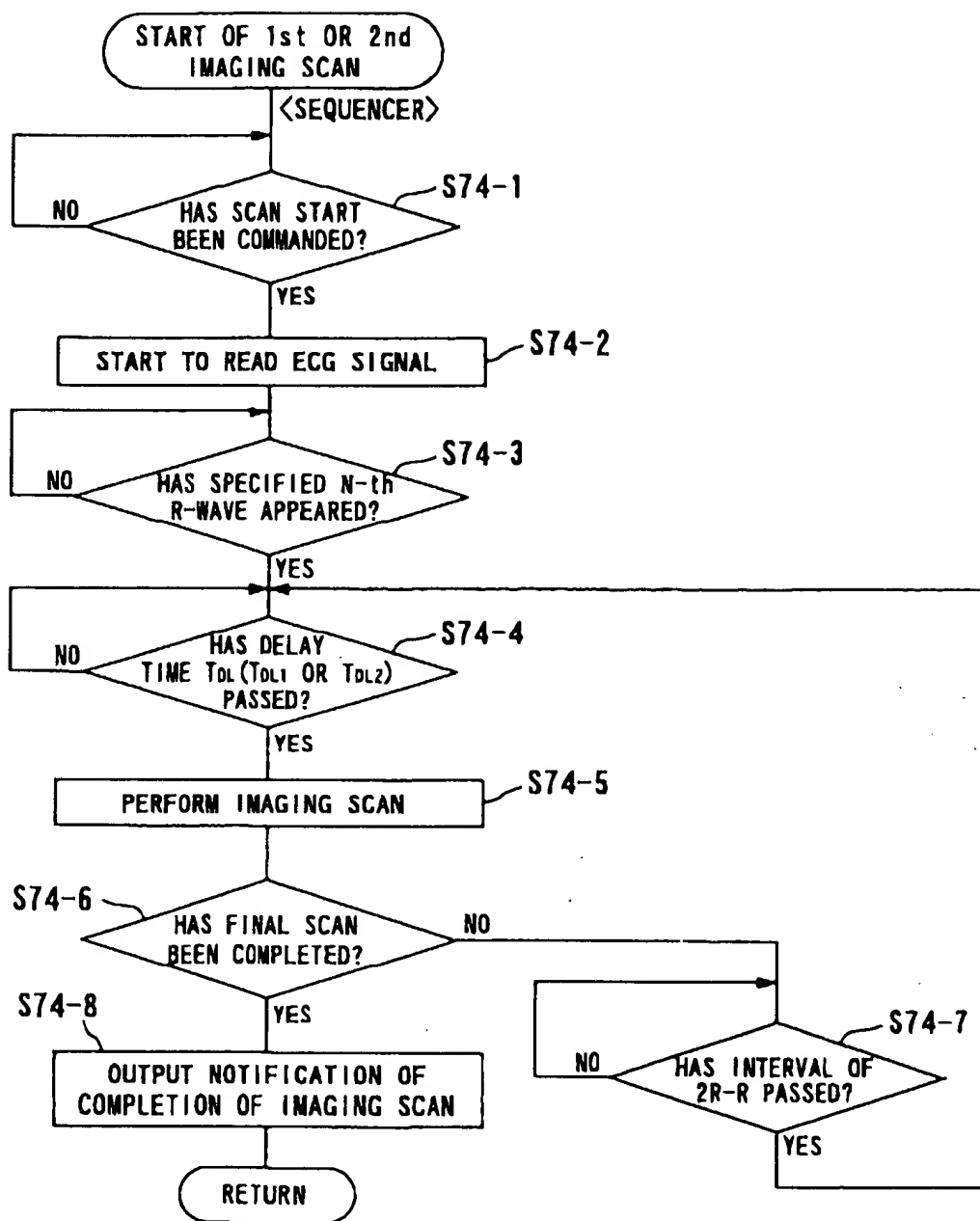


FIG. 17

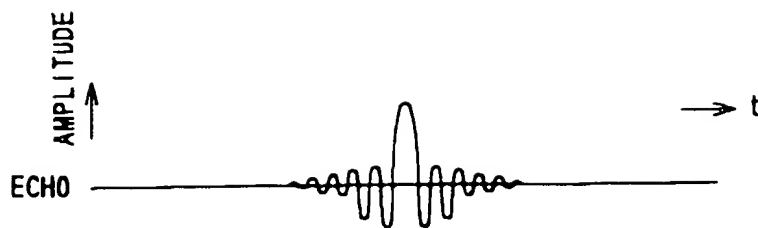


FIG. 19A

FIG. 19B

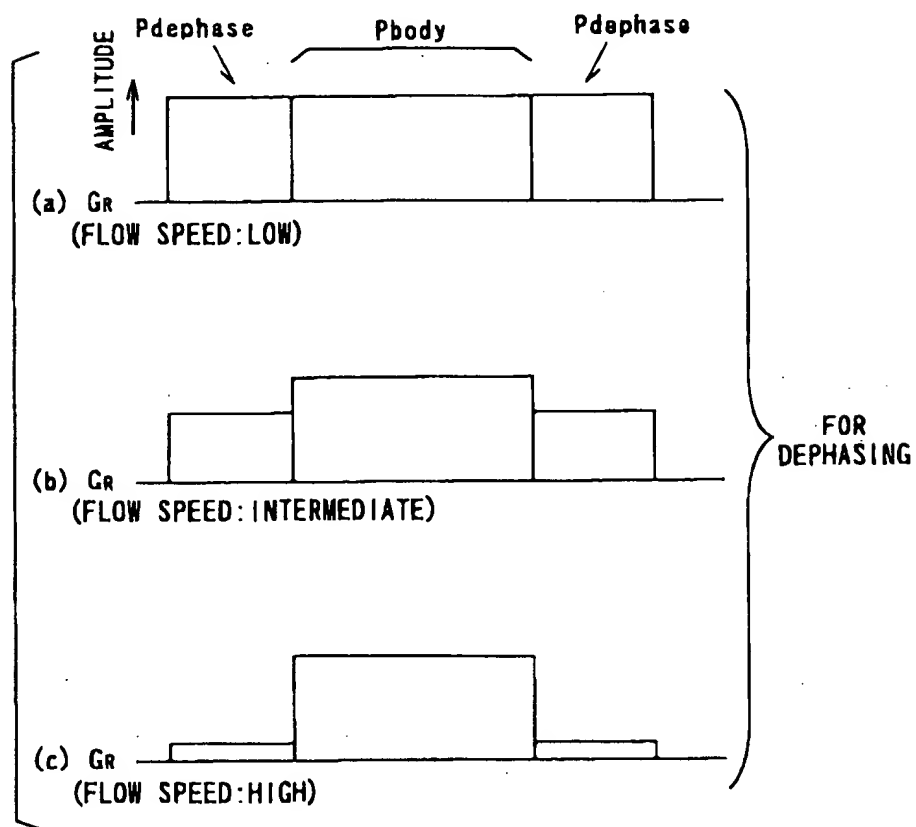
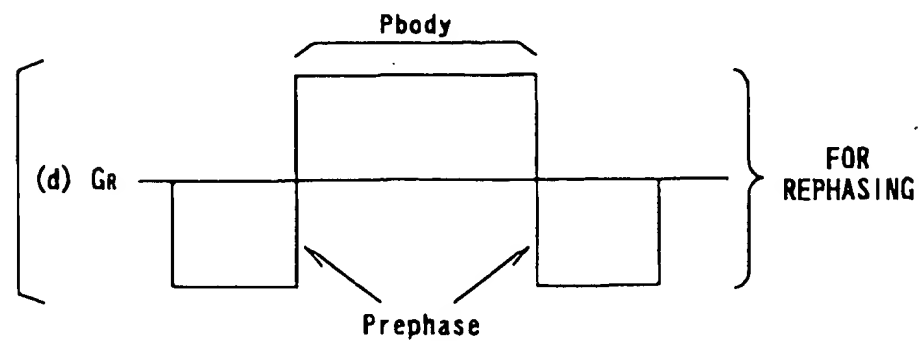


FIG. 19C



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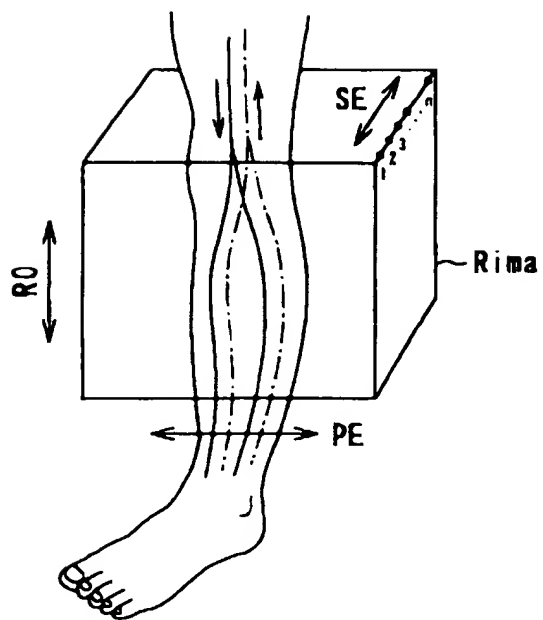


FIG. 20

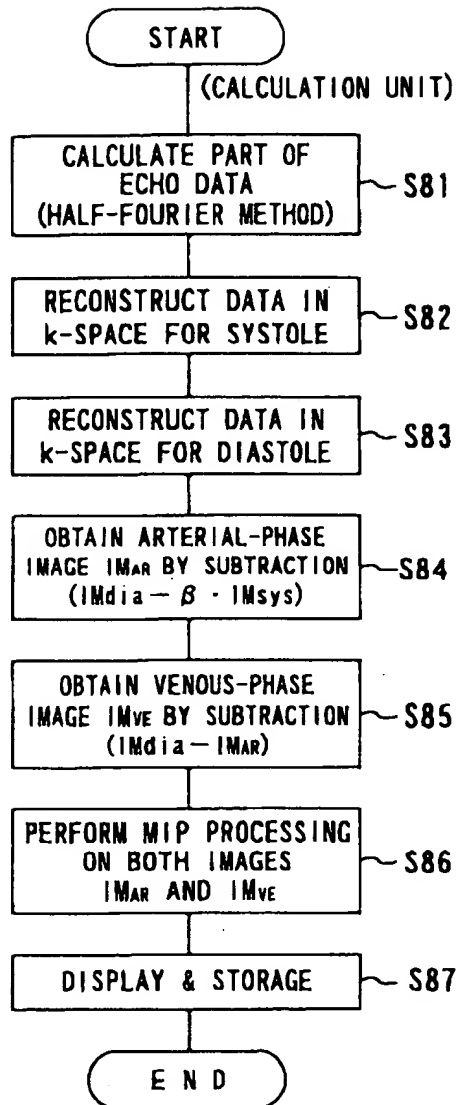


FIG. 21

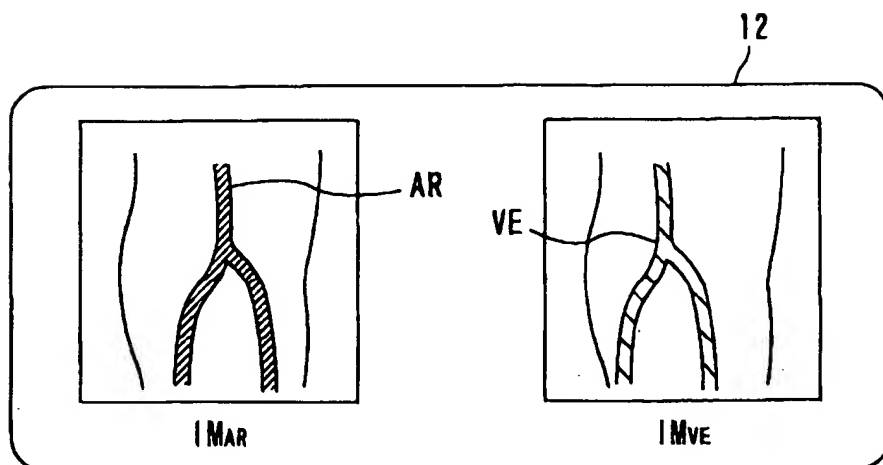


FIG. 22

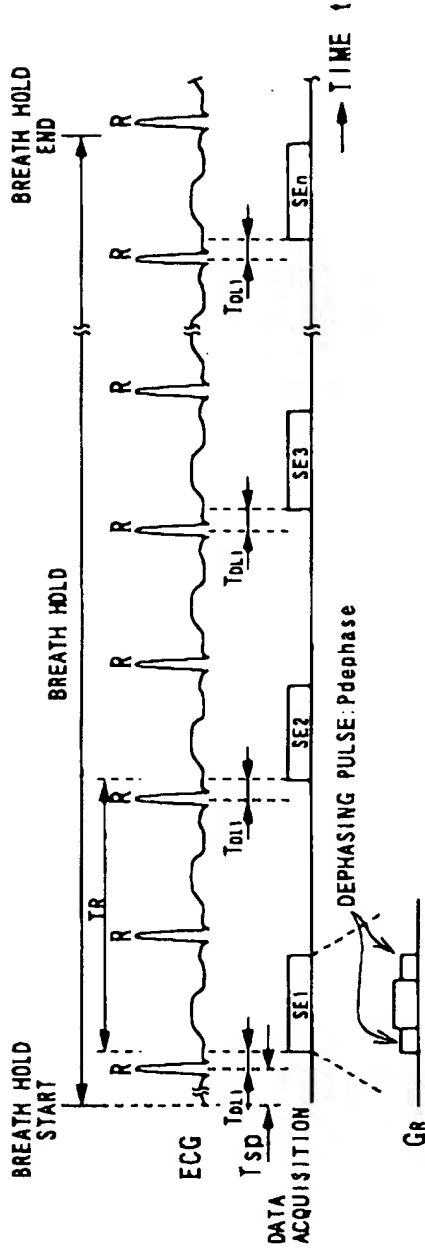


FIG. 23A
FIRST IMAGING
SCAN (SYSTOLE)

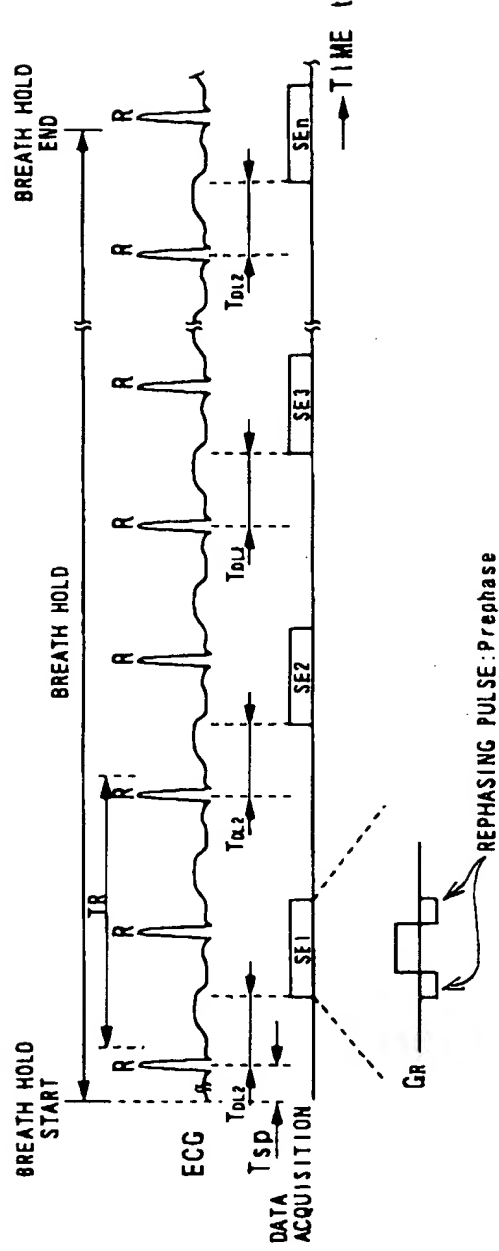


FIG. 23B
SECOND IMAGING
SCAN (DIASTOLE)

```

graph TD
    Start([START OF IMAGING SCAN]) --> Host[<HOST COMPUTER>]
    Host --> S120[S120 READ APPROPRIATE DELAY TIMES TOL1 AND TOL2 FOR TWO CARDIAC PHASES]
    S120 --> S121[S121 INPUT SCAN CONDITIONS, IMAGE PROCESSING METHOD, ETC., PROCESS THOSE DATA INTO CONTROL DATA, AND OUTPUT CONTROL DATA]
    S121 --> S122{S122 HAS PREPARATION BEEN COMPLETED?}
    S122 -- NO --> S122
    S122 -- YES --> S123[S123 COMMAND START OF BREATH HOLD]
    S123 --> S124[S124 COMMAND START OF SCAN]
    S124 --> S125{S125 HAS SCAN COMPLETION BEEN NOTIFIED?}
    S125 -- NO --> S124
    S125 -- YES --> S126[S126 COMMAND REREATH OF BREATH HOLD]
    S126 --> S127[S127 PROCESS AND DISPLAY IMAGE]
    S127 --> End([END])
  
```



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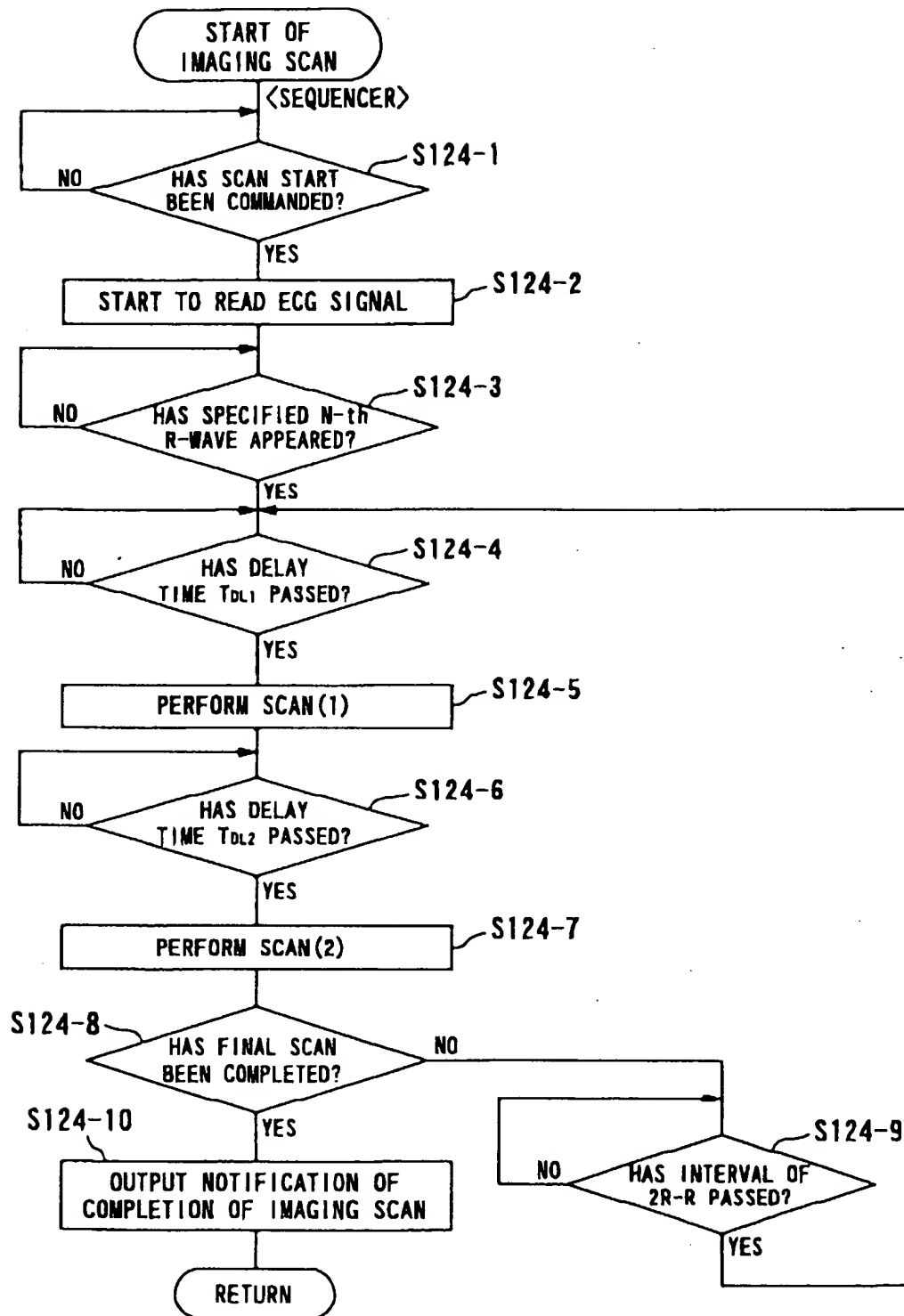


FIG. 25

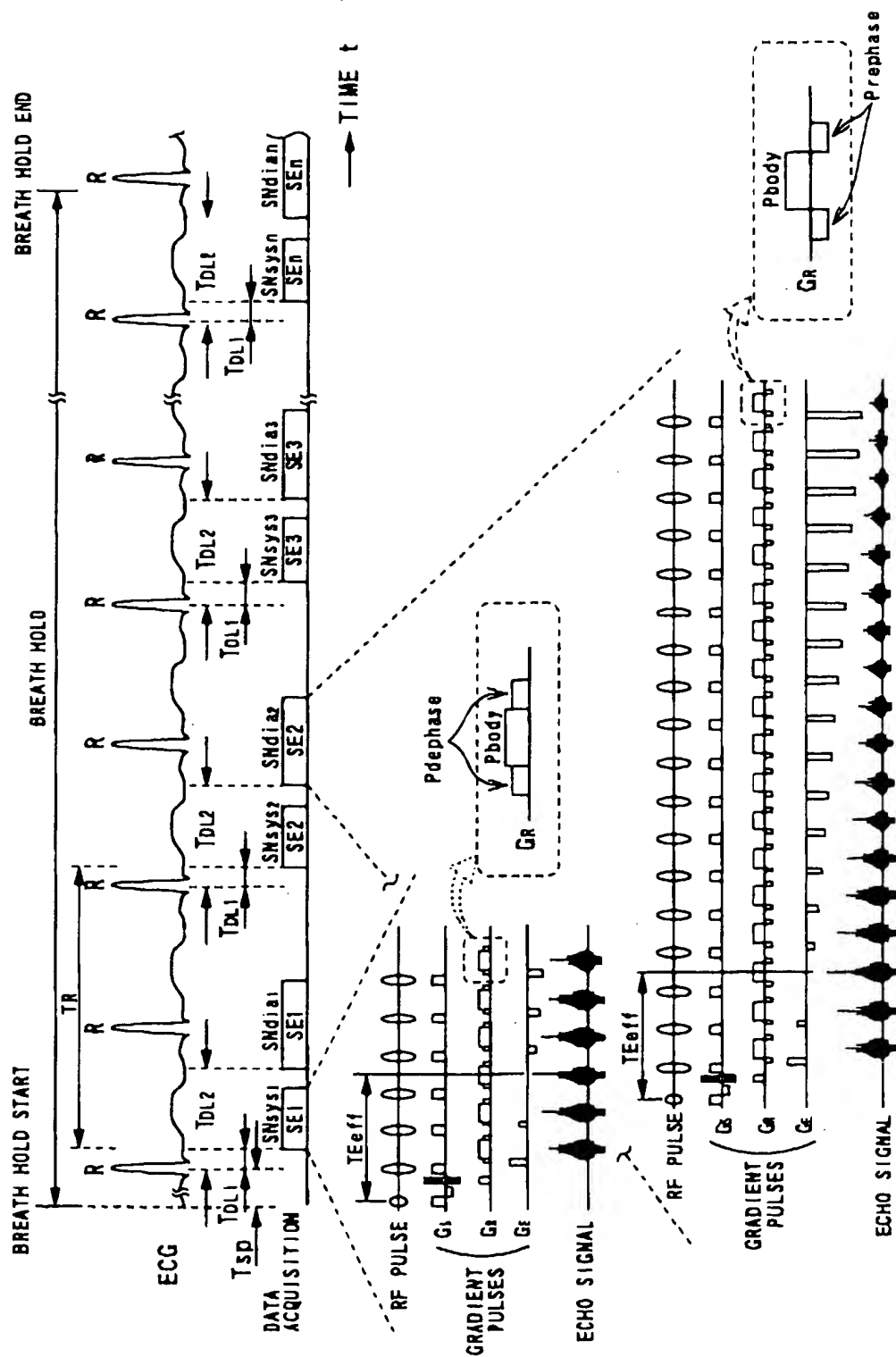


FIG. 26